

FIG. 1

virus	potency of virus		
	pre-exam	treatment	control(non-treatment)
infectious bronchitis virus boated 42 strain (Coronaciridae)	$10^{1.5}$	$<10^{1.5}$	$10^{0.5}$
influenza type A virus(Aichi strain)	$10^{7.4}$	$10^{2.0}$	$10^{6.4}$
influenza type A virus(499 strain)	$10^{8.3}$	$10^{2.0}$	$10^{7.2}$
Newcastle disease virus	$10^{7.5}$	$10^{2.3}$	$10^{7.3}$

F I G. 2

No.	試料(サンプル)名	ingredient [chemical formula]	mean particle diameter (μm)	specific surface area (m^2/g)	remark
1	CaO	calcium oxide [CaO]	9.257	0.697	KISIDA CHEMICAL CO.,LTD. for chemical use(for test and/or research use) guaranteed
2	Ca(OH) ₂	calcium hydroxide [Ca(OH) ₂]	4.903	10.16	KISIDA CHEMICAL CO.,LTD. for chemical use(for test and/or research use) guaranteed
3	Ca(OH) ₂	calcium hydroxide [Ca(OH) ₂]	5.382	9.42	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use(for test and/or research use) guaranteed
3	MgO	magnesium oxide [MgO]	2.498	37.13	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use(for test and/or research use) guaranteed
4	Mg(OH) ₂	magnesium hydroxide [Mg(OH) ₂]	4.000	18.90	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use(for test and/or research use) guaranteed
5	MgO(heavy)	magnesium oxide [MgO]	10.889	6.38	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use(for test and/or research use) guaranteed
6	MgO(heavy) - 10 μm	magnesium oxide [MgO]	2.410	23.60	WAKO PURE CHEMICALS INDUSTRIES, LTD. for chemical use(for test and/or research use) guaranteed
7	hydrated lime	calcium hydroxide [Ca(OH) ₂]	4.850	11.71	UEDA LIME CO.,LTD.
8	dolomite	dolomite [MgCO ₃ · CaCO ₃]	19.746	0.919	UEDA LIME CO.,LTD.
9	Ca : Mg = 1 : 1	calcium hydroxide [Ca(OH) ₂] magnesium oxide [Mg(OH) ₂]	4.663	10.70	WAKO PURE CHEMICALS INDUSTRIES, LTD. 1:1 mole ratio equimolar mixture
10	the agent according to the present invention		2.616	18.43	MOCHIGASE ELECTRICAL EQUIPMENT CO.,LTD. non surface treatment mean particle diameter 2.5 μm
11	the agent according to the present invention		14.694	13.26	MOCHIGASE ELECTRICAL EQUIPMENT CO.,LTD. non surface treatment mean particle diameter 2.5 μm

F I G. 3

No.	sample	final concentration (w/v)	the number of days after preparation	pH value	rate of dilution						
					10 ⁻²	10 ⁻³	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁷	
1	CaO	0.3	14	11.1	—	3/3	3/3	3/3	3/3	—	—
				11.4	—	—	—	9/3	9/3	—	—
2	Ca(OH) ₂	0.3	14	11.5	—	3/3	2/3	1/3	0/2	0/3	—
				12.2	—	—	—	—	—	—	—
3	MgO	0.3	14	12.0	—	—	3/3	2/3	0/3	—	—
				10.0	—	—	—	—	—	—	—
4	Mg(OH) ₂	0.3	14	9.8	—	—	—	—	—	—	—
				9.1	—	—	3/3	3/3	0/3	—	—
5	MgO(heavy)	0.3	14	9.7	—	—	3/3	3/3	0/3	—	—
6	MgO(heavy)—10 μm	0.3	14	12.3	—	—	9/3	1/3	0/3	—	—
7	hydrated lime	0.8	14	11.5	—	—	—	—	—	—	—
				12.3	—	—	9/3	1/3	0/3	—	—
8	dolomite	0.3	14	7.8	—	—	3/3	3/3	3/3	3/3	—
				11.2	—	—	—	—	—	—	—
9	Ca : Mg = 1 : 1	0.3	14	12.1	—	3/3	2/3	2/2	0/2	0/2	—
				11.8	—	—	—	—	—	—	—
10	the agent according to the present invention	0.3	14	11.7	—	—	2/3	0/3	0/3	0/3	—
				11.7	—	—	—	—	—	—	—
11	the agent according to the present invention	0.8	12.0	—	—	3/3	1/3	0/3	—	—	—
				12.0	—	—	—	—	—	—	—
12	Control (PBS)	1/10 Concentration	7.9	—	—	—	—	—	—	—	—
			7.8	—	—	—	—	—	—	—	—
13	supernatant liquid of sample No.10	—	8.9	—	3/3	3/3	0/3	0/3	0/3	0/3	—
14	titration	—	—	—	—	—	—	—	—	—	—

the result of infection—the number of eggs infected/the number of eggs inoculated with a virus

☒

F I G. 4

No.	sample	mean particle diameter (μm)	final concentration (w%)	the number of days after preparation	pH value	(ED ₅₀ /0.2ml)
1	CaO	9.257	0.3	14	11.1	10 ^{7.50} <
2	Ca(OH) ₂	5.382	0.3	14	11.4	10 ^{7.50} <
3	MgO	2.498	0.3		12.2	10 ^{4.60}
4	Mg(OH) ₂	4.000	0.8		8.8	10 ^{8.24} <
5	MgO(heavy)	10.889	0.3		9.1	10 ^{7.76}
6	MgO(heavy) — 10 μm	2.410	0.3		9.7	10 ^{7.76}
7	hydrated lime	4.850	0.3		12.3	10 ^{4.76}
8	dolomite	19.746	0.3		11.5	10 ^{6.50}
9	Ca : Mg = 1 : 1	4.663	0.8	14	7.8	10 ^{8.50} <
10	the agent according to the present invention	2.516	0.8	14	11.2	10 ^{5.50}
11	the agent according to the present invention	14.694	0.3		12.1	10 ^{6.25}
12	Control (PBS)	1/10 - Concentration			12.0	10 ^{4.50}
13	supernatant liquid of sample No.10				11.7	10 ^{4.24}
14	titration :				12.0	10 ^{5.50} <
						10 ^{7.76}
						10 ^{8.00}
						10 ^{8.24}

F I G. 5

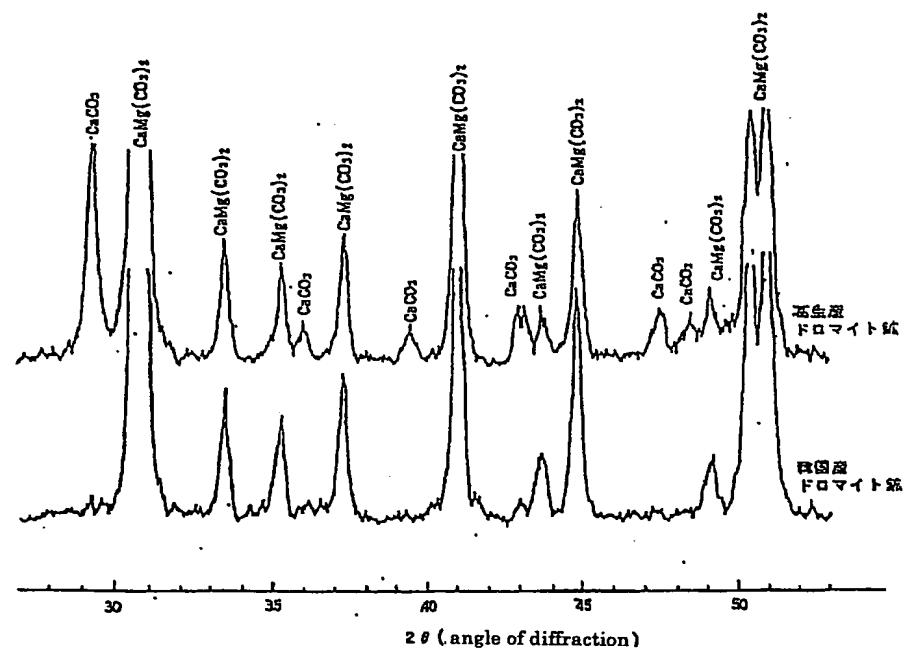
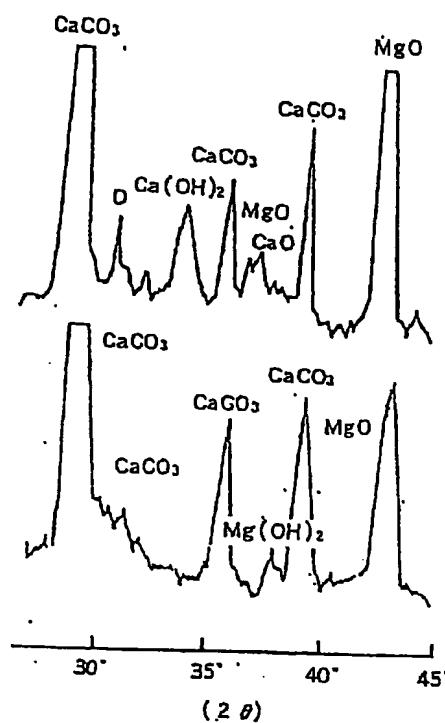
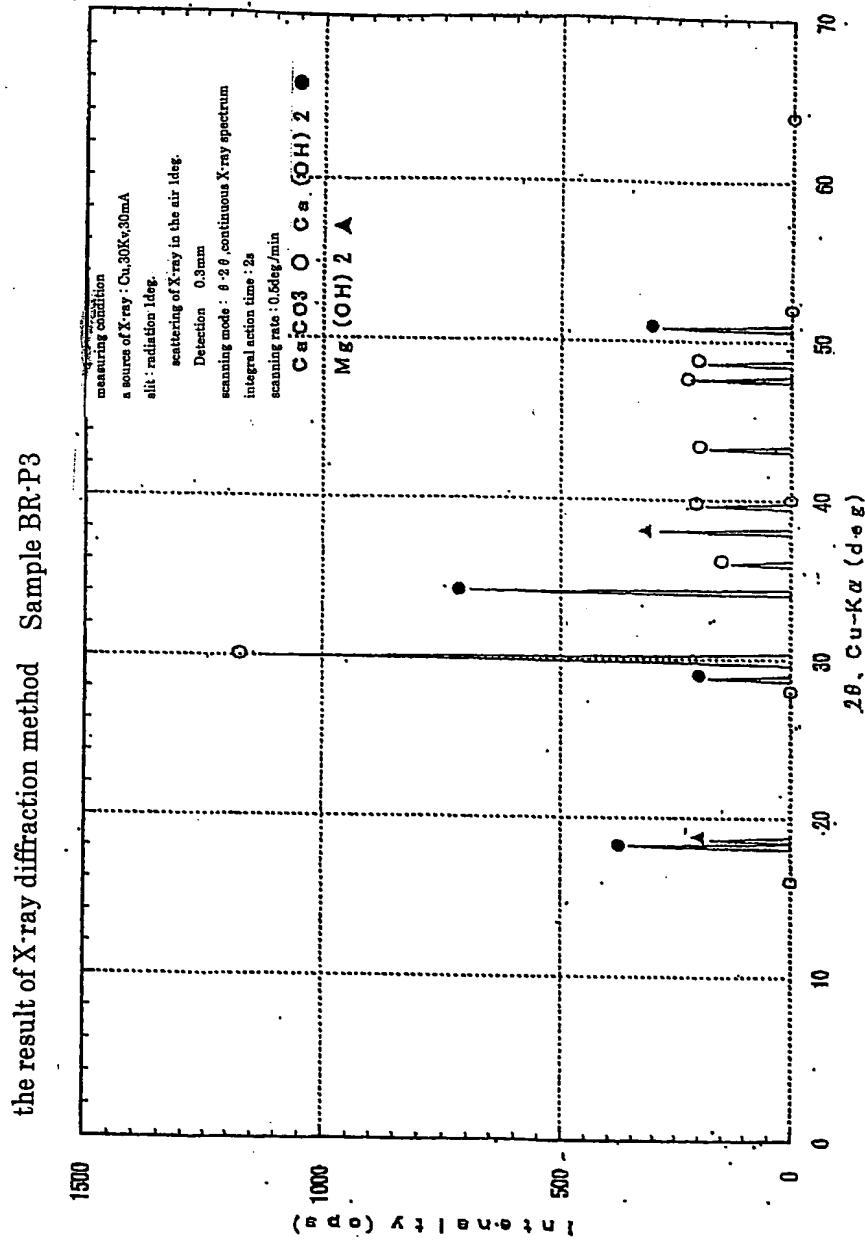


FIG. 6

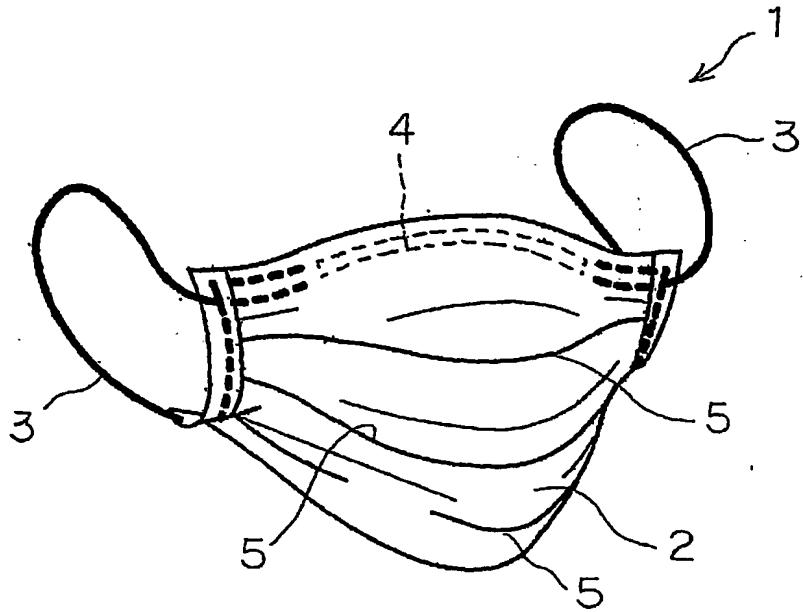


F I G. 7

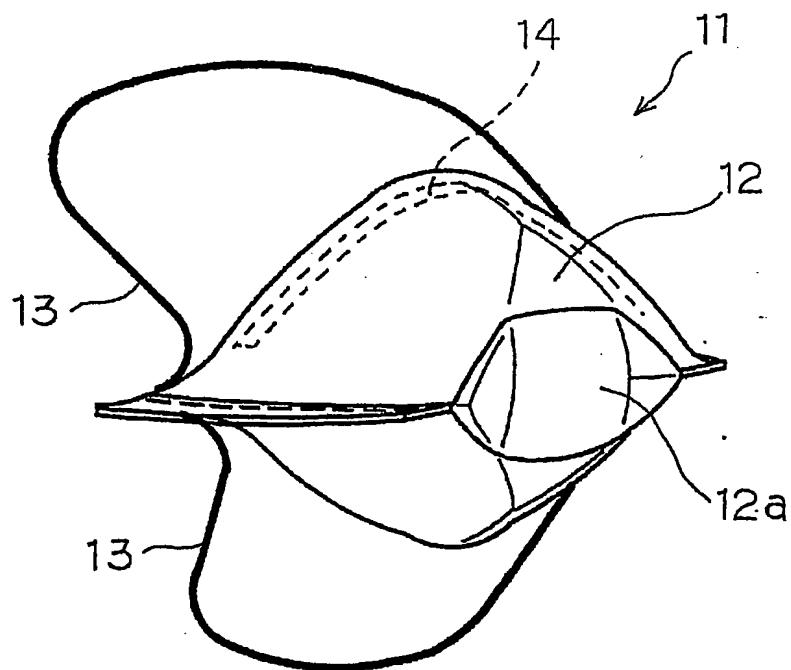


F I G. 8

(a)



(b)



F I G. 9

